

Appendix A

Field Artillery Support Plan

This appendix discusses the format and content of a formal FASP, written in the five-paragraph field order format as an appendix to a FS annex of a maneuver OPORD. Section I provides basic guidance on the content for the various parts and paragraphs of a FASP while Section II provides an example of a FASP. See Chapter Four for general information about the FASP.

SECTION I – FIELD ARTILLERY SUPPORT PLAN FORMAT

A-01. The FASP is the FA battalion commander's tactical plan for employing the fires of all FA assets under his span of responsibility. For a DS battalion this means the FASP must address all FA supporting the supported maneuver force. It also means that the battalion must develop the FASP as an integral supporting document to the maneuver plan, usually as an appendix to the FS annex of the maneuver OPORD. R, GSR, and GS battalions usually prepare a stand-alone FASP focused on the battalion's assets and mission execution.

A-02. The FASP explains the FA missions and tasks and provides the FA battalion commander's guidance, intent, and concept of FA operations. The FASP assigns responsibilities to subordinate and supporting elements, focusing on all tasks necessary to execute all EFATs. The FASP must address maneuver/FA commander guidance, changes to fire order standards involving how and when to attack targets, and assignment of unit responsibilities for specific HPTs and other key targets or missions. The FASP also addresses movement/positioning plans, C2 arrangements (such as sensor-to-shooter links), TA tasks, CSS information, and force protection measures.

A-03. The battalion's FASP generally does not duplicate information from the maneuver OPORD/FSP or a DS/higher FA HQ FASP, or from the battalion's TSOPs. However, it may be necessary to repeat critical information in the battalion's FASP if the higher level FSP/FASP or the battalion's TSOP are not disseminated to all of the battalion's subordinate/supporting elements.

FASP OUTLINE

A-04. The following pages provide an outline of the format for a FASP. The outline is annotated for specific information requirements or suggestions. This format is available in automated C2 systems such as AFATDS and MCS.

(Classification)

Copy no __ of __ copies
Unit preparing order
Geographical location
Date-time group (DTG) of order

APPENDIX __ (FA SUPPORT PLAN) TO ANNEX __ (FIRE SUPPORT) TO OPORD

Reference: List any maps, charts, or other documents (TSOPs, and so on) required to understand the order. Reference to a map will include the map series number (and country or geographic area, if required), sheet number (and name if required), edition, scale (if required), and the force common datum (see note below) from a GPS (specify type of GPS and datum used) or from the center of the lower margin on a map. Reference listed here should not be reprinted in tabs unless tabs are separated from the basic document.

<p>Note: Universal transverse mercator (UTM) coordinates from the same point computed on a different datum may differ as much as 900 meters.</p>

Time Zone Used Throughout Order: The time zone applicable to the operation. Times in other zones are converted to this zone for this operation. Consistency must be maintained through all documents.

1. SITUATION. Paragraph 1 is used exclusively to provide information. It includes items of information affecting FA operations that may or may not be included in the fires paragraph of the maneuver OPORD/OPLAN or the fire support annex. It gives an overview of the general situation so subordinate commanders can understand the environment in which they will be operating. If all organic, attached, or supporting commanders do not receive complete copies of the maneuver OPORD/OPLAN and the fire support annex, then the FASP repeats those items critical to the execution of their missions.

a. Enemy Forces. Subparagraph 1a provides enemy information vital to the FA unit. This includes enemy indirect fire capabilities that may influence FS activities, the ground threat, the air threat, counterfire threat, and any other enemy information of particular relevance to FA units. Reference may be made to an intelligence annex, an overlay, a periodic intelligence report, or to an intelligence summary (INTSUM). Consider using the intelligence annex as a tab.

(Classification)

(Classification)

APPENDIX __ (FA SUPPORT PLAN) TO ANNEX __ (FIRE SUPPORT) TO OPORD

b. Friendly Forces. Subparagraph 1b contains the missions and commander's intent of higher HQ (two levels up) and/or that of supported maneuver elements. Missions of adjacent, supporting, and reinforcing units also may be outlined here. Information should be limited to that which subordinate commanders need to know to accomplish their missions. The supported maneuver commander's intent for fire support as well as the force FA commander's intent during GS and GSR missions are included.

c. Attachments and Detachments. Subparagraph 1c should list units attached to and detached from the FA unit (if not included clearly in the task organization), the terms of attachment, and effective DTGs, if appropriate.

d. Assumptions. If the FASP supports an OPLAN, assumptions may be required. If the FASP is part of an OPORD, assumptions are not included.

2. MISSION. Paragraph 2 is a clear, concise statement of the task the FA unit is to accomplish. As a minimum, it should answer the questions, who, what, when, where, and why. It includes essential tasks, EFATs/EFSTs, determined by the commander as a result of his mission analysis.

3. EXECUTION. Paragraph 3 contains the how-to information needed for mission accomplishment. The FA battalion commander's intent is expressed here. The intent should briefly address the purpose of the FA fires, the methods used by the force to reach the end state (e.g., EFSTs/EFATS that must be accomplished, guidance on movements, methods of survivability), and the end state (address criteria for success).

a. Concept of Operations. Subparagraph 3a is a detailed statement of the FA commander's visualization of the conduct of FA support for the operation by phase to the desired end state. The concept clarifies the purpose of the operation (by phase), then how FA will support it. It is a detailed explanation of the commander's intent. It is stated in enough detail to ensure appropriate action by subordinate units in the absence of more specific instructions. This paragraph may include a summary of the maneuver concept by phase for units that do not receive the maneuver OPORD.

b. Organization for Combat. Subparagraph 3b is a clear statement of the organization and tactical missions of the subordinate units of the FA HQ. Organization for combat normally will be done by various phases corresponding to the operation (if changes occur). Anticipated on-order changes to organization or tactical missions are included in this subparagraph.

<p>Note: Subsequent subparagraphs in paragraph 3 build on the concept of the operation and should provide the artillery organization for combat, priority of fires, priority of special munitions, positioning and movement instructions, and EFATs to be accomplished by subordinate units. This should address each step of the operation.</p>

(Classification)

(Classification)

APPENDIX __ (FA SUPPORT PLAN) TO ANNEX __ (FIRE SUPPORT) TO OPORD

c.	*	*	*	*	*	*	*	*	*	*
d.	*	*	*	*	*	*	*	*	*	*
e.	*	*	*	*	*	*	*	*	*	*

f. Coordinating Instructions. The last subparagraph in paragraph 3 is coordinating instructions. It includes instructions and details of coordination applicable to two or more subordinate FA units. Instructions included in the subparagraph also may be addressed in **tabs** to the FASP. If a separate tab is developed, include in the coordinating instructions subparagraph only items of general interest, with details placed in the tab. If a tab is prepared, reference it in the body of the FASP. This subparagraph should include instructions concerning the following:

- TA (includes counterfire reference grid and instructions to or about specific observers).
- Survey (includes priorities for survey, accuracy's required [if other than TSOP], timing, position requirements, future plans, spheroid, datum, ellipsoid, codes [for PADS, BUCS, AFATDS], datum codes used, time zone letter, and grid zone).
- Automated/manual fire control/fire direction instructions, especially coordination requirements with units with similar, but not identical, automated systems. MSU taskings and changes from CONOPS SOPs are identified here.
- HPTL (taken directly from maneuver OPORD/OPLAN).
- Attack guidance matrix. (This may appear as a matrix in a tab. It's taken directly from the maneuver OPORD/OPLAN. (Specific automated commander's criteria are found in the IFSAS, FDS, LTACFIRE, or AFATDS Tab).
- NBC defense (includes MOPP, operation exposure guidance [OEG], and decontamination instructions/locations).
- Met (includes source, type, and times of met messages).
- Liaison requirements.
- Fire plan (includes target list, schedules of fires and FSCMs).
- CCIR, PIR, EEFI, FFIR and other intelligence datum/information as appropriate.
- Intelligence acquisition tasks.

(Classification)

(Classification)

APPENDIX __ (FA SUPPORT PLAN) TO ANNEX __ (FIRE SUPPORT) TO OPORD

- Ammunition restrictions (includes expenditure restrictions, approval requirements, and risk limitations).

- Antifratricide measures (such as vehicle markings) that are not TSOP.

- Rehearsals.

4. SERVICE SUPPORT. Paragraph 4 includes specific service support instructions and arrangements supporting the operation. The commander's guidance regarding CSS will be here. Supply, maintenance, medical, and personnel information are included in this paragraph. As a minimum, the CSR and the CSS locations (combat trains, field trains, casualty collection points, LRP, ATP, and/or ASP) should be given. Address only those CSS aspects that apply to the operation. Address the pertinent aspects of the six tactical logistic functions of manning, arming, fueling, fixing, moving and sustaining soldiers and their systems. These functions should be addressed in turns of before, during, and after the operation.

a. Manning - Current personnel strength (percentage), project replacements.

b. Arming - Ammunition resupply, CSR, ATP, ASP.

c. Fueling - Fuel points, priority of refuel.

d. Fixing - UMCP location, allocation of recovery assets, maintenance and recovery priorities, cannibalization authority.

e. Moving - Locations of MSR, SP, RP and checkpoints along the route, priorities of movement on MSRs.

f. Sustaining - Medical resupply, barrier materials, restricted issue or controlled exchange items, mortuary affairs, Chaplain information, water points, locations of battalion aid station, casualty collection point, chemical casualty collection points, civil-military cooperation.

(Paragraph 4 may be amplified in a tab.)

(Classification)

(Classification)

APPENDIX __ (FA SUPPORT PLAN) TO ANNEX __ (FIRE SUPPORT) TO OPORD

5. COMMAND AND SIGNAL

a. Command. The first paragraph should list the locations of the unit TOC and the locations of higher, supporting, and supported unit TOCs. The commander's planned location during the operation, and alternate CP can be in this paragraph. Plans should also address any alternate battalion FDC arrangements not covered in, or that are changed from, unit SOP. Other automated C2 systems used or interface requirements (such as MCS), and any particular aspects for their use also are included here. Address succession of command if other than TSOP.

b. Signal. This subparagraph contains the index of the effective SOI to include edition in effect and courier schedule. Special instructions on the use of radios, wire, MSE, EPLRS, retransmission elements (location and priority) and signals not covered in TSOP are included here.

Acknowledge:

ISSUING COMMANDER'S NAME
RANK

OFFICIAL:

/Signed/

S3 NAME

Approval: The original/file copy bears the signature of the FA battalion commander. The S3 authenticates all other copies, which are disseminated to subordinate and reinforcing/reinforced FA units, any attached or supporting elements, and force FA HQ.

Tabs: A -
B -
C -
D -
E -

Note: Tabs should be prepared for portions of the FASP that are explained better in a different format (for example, overlay or matrix), that are too extensive to be in the FASP, that are expected to change or lengthen, or that are submitted too late to be included. Often subordinate units will not receive the basic maneuver OPORD/OPLAN or fire support annex. Therefore, reprints of portions of these documents may be required and included as tabs.

(Classification)

(Classification)

APPENDIX __ (FA SUPPORT PLAN) TO ANNEX __ (FIRE SUPPORT) TO OPORD

Tabs are ordered as they are referenced in the basic OPORD or OPLAN. The TSOP may specify that some tabs will always be produced. Common tabs used at battalion level include:

- FASM - FA TOC.
- FA positioning and movement overlay - FA TOC.
- Fire plan (S3 may refer to plan names and subordinate elements, can print out target list, schedules of fires and FSCM instead of developing a separate tab) - FSE.
- Survey - FA RSO.
- TA - FA TOC.
- AFATDS, LTACFIRE, FDS, or IFSAS- FA TOC.

Other tabs used if time permits:

- Intelligence (INTSUM, overlay, annex, or PIR and IR lists) - maneuver/higher FA HQ TOC.
- Service support and CSS overlay - FA ALOC.
- Maneuver overlays - maneuver/higher FA HQ TOC.
- Met - Force FA HQ.
- Task organization (may be attached from OPORD).
- Obstacle overlay – maneuver/higher FA HQ TOC.
- Rules of engagement - maneuver/higher FA HQ TOC.
- ADA, engineer, and other supporting element plans as appropriate.
- Special distribution items (such as antifratricide prevention information).

(Classification)

SURVEY TAB TO THE FASP

A-05. The survey plan (or order) normally is incorporated into the FASP as the survey tab. The survey plan contains detailed instructions not covered by local TSOP for each survey team. It gives general information needed for the efficient accomplishment of the survey mission. The survey plan is normally written, but may be issued orally, if necessary. It generally follows the same format as the OPORD/OPLAN. Often because of the tactical situation and wide dispersal of units, part of the survey plan may be issued by radio or other communication means. The format for a survey plan is in FM 6-2.

AUTOMATION TAB TO THE FASP

A-06. The written portion of the automation tab attached to the FASP should contain changes/additions to subscriber information, and commander's criteria, geometry, units, and ammunition information that pertain to the operation (not contained in TSOP).

A-07. Since automation systems provide fire planners throughout the artillery system with instantaneous access to target files and FA schedules, the S3 no longer has to attach a fire plan tab (target list and schedules of fires) to the written portion of the plan. Instead, he can initiate, coordinate, and monitor the development of the FA schedules in accordance with the standard fire planning capabilities and procedures that apply to these systems. In the written portion of the plan, he can reference FA schedules, target lists, and FSCM by plan name and, if necessary, targets by target number. FA elements can extract detailed information as needed.

TARGET ACQUISITION TAB TO THE FASP

A-08. The TA tab is a managerial tool used by the TOC controlling FA TA assets. This tab is used to ensure that all TA assets are employed to support the overall maneuver operation. The purpose of the TA tab is as follows:

- Assigns missions to FA TA assets.
- Coordinates the FA TA efforts.
- Establishes a specific flow of target processing data.
- Assigns responsibilities not covered in unit TSOPs.

A-09. The FA Bn S2 and S3 jointly produce the TA tab with help from the targeting officer and radar section leader. For specific information on the TA order see FM 6-121.

ARTILLERY INTELLIGENCE TAB TO THE FASP

A-10. The artillery intelligence tab is not a copy or repeat of the maneuver intelligence annex but contains intelligence data that is artillery-specific. This tab includes artillery PIRs and IRs as designated by the artillery commander. The artillery intelligence tab is prepared by the S2.

ADMINISTRATION-LOGISTICS TAB TO THE FASP

A-11. The admin-logistics tab contains specific information relevant to the issuing FA HQ. Information contained in the unit TSOP should not be

covered in this tab. Changes to or deviations from admin-logistics information in the TSOP must be covered in the tab. The admin-logistics tab is prepared by the S4 with assistance from the S1.

FA SUPPORT MATRIX TAB TO THE FASP

A-12. The FASM is a concise planning and execution tool that graphically depicts the FA unit's essential tasks. Like paragraph 3 of the written FASP, the matrix should answer the questions who, what, when, and where. It identifies key tasks for each element and ties accomplishment of those tasks to the requirements of the maneuver plan and the FSP.

FORMAT

A-13. The matrix is set up with the operational elements (such as firing batteries, survey sections, radar sections, and CPs) along the left side and with significant maneuver phases and/or artillery tasks along the top (for example, phase lines, events, times, groups, or programs). Maneuver phases should correspond to phases established on the maneuver execution matrix.

A-14. An example of a FASM is at Figure A-1. It also shows a way to label the FASM for easy reference. Letters identify columns, and numbers identify lines. For example, block D-4 in the following example reads "PA 12." This matrix reference system allows the S3 to easily disseminate or update matrix data by radio, MSE, or wire to all appropriate agencies.

FA SUPPORT MATRIX CONTENT

A-15. Information that may be found in the matrix include the following:

- EFATs, EFSTs, and other tasks associated with a specific time frame.
- PAs, movements, prepare to march-order (PTMO).
- Azimuth of Lay (AOL) and left/right azimuth limits.
- Priority of fires (POF) and priority of survey (POS) by phase.
- Preparations (PREP) and counterpreparations (CPREP).
- FSCMs by phase.
- Priority targets (PRI TGT) assigned to units.
- Trigger points.
- Critical targets by phase (schedules).
- Munition requirements (e.g., Copperhead (CPHD)).
- MSU information.
- Reconnaissance.
- O/o missions.
- Rearming and/or refueling.

A-16. Suggested enclosures to the support matrix tab include the FA movement overlay. The movement overlay may include the following:

- Positions and routes.
- Passage points.
- Rearm, refuel points.
- Start points, release points, and CPs.

A	B	C	D	E	
PHASE / EVENT UNIT	Phase 1 AA MECH to PL BLUE	Phase 2 PL BLUE to ATK POSN	Phase 3 BREACH to OBJ CAT SECURE	Phase 4 Hasty Def	1
6-8 FA BN TOC	AA MECH Move A-TF 2-3 PL RED Move B-TF 2-77 PL RED Move C-TF 2-66 PL RED Move TOC-TF 2-3 PL GRAY Issue mvmt order to 4-18 when C/6-8 FA SPs	PA 8----- Move B when A set PA 11 Move C when B set PA 12 Issue mvmt order to 4-18 when A set PA 11	-----> Move A-OBJ CAT Secure Move B-A set Move C-B set Move TOC-OBJCAT Secure	PA 19 Issue mvmt order to 4-18 when C set	2
A/6-8 FA	HIP SHOOT----- configuration following TF 2-3	----> PA 11 AOL 2000 PRI TGT 2-3-----	-----> ----->	PA 20 AOL 0800 FPF 1	3
B/6-8 FA	HIP SHOOT configuration following 2-77	PA 2 AOL 1600 PRI TGT 2-77 Move then A set PA 11	PA 12 AOL 1600 PRI TGT 2-77 Group A2C	PA 21 AOL 1600 FPF 2	4
C/6-8 FA	HIP SHOOT configuration following 2-66 IN	PA 3 AOL 1200 PRI TGT 2-66 Move when B set PA 12	PA 13 AOL 1200 PRI TGT 2-66 Series DOG	PA 22 AOL 2400	5
Q-36	OPCON to 4-18 FA PA 7----- 6300-1500 Adv pty w/PADS 2	----> Move when A/4-18 set Adv pty w/PADS 2	PA 18, Search Az 1600 CFZ 1, o/o CFZ 2, o/o CFZ 3, CFFZ 1, o/o CFFZ 2	PA 23 CFZ 1, o/o CFZ 2 CFFZ 3	6
SURVEY Priorities	PADS 1 Trvl w/ A adv pty; PA 11, PA 2	Trvl w/B adv pty; PA 12	L/U w/A, B adv ptys PA 20, PA 21	Mortars	7
FA, Rdr, Mort FA-A, C, B	PADS 2 Trvl w/C adv pty; PA7 (RDR), PA 3	L/U w/ C, RDR adv ptys PA 13, PA 18 (RDR)	L/U w/ C, RDR adv ptys PA 22, 23	Mortars	8
FSCMs	Div CFL PL BLUE NFAs: Towns of Al- Aubin and Al-Varez	Div CFL PL Yellow Bde CFL PL GUTS ----->	Div CFL PL Yellow Bde CFL PL GUTS o/o PL BLOOD ----->	Div CFL PL BLACK Bde CFL PL BLOOD ----->	9
POFs	TF 2-3	TF 2-3	TF 2-3 o/o 2-66 IN	TF 2-3	10
4-18 FA (R) BN TOC	TOC move following C/6-8 FA Counterfire HQ-----	PA 9----- Move A when A/6-8 set Mv B, C, RDR when A set ----->	-----> ----->	PA 24 Move when C/6-8 FA set ----->	11
A/4-18 FA	PA 4----- AOL 0900 PRI TGT 2-3-----	----> Move when A/6-8 set ---->	PA 15 AOL 1500 Smk for breach	Move when C/6-8 FA set PA 25 AOL 0400	12
B/4-18 FA	PA 5----- AOL 0900 PRI TGT 2-77	----> Move when A Set ---->	PA 13 AOL 1500 GRP B1C o/o GRP B3C CPHD Pri Tgt	Move when C/6-8 FA set PA 26 AOL 1200	13
C/4-18 FA	PA 6----- AOL 0900 PRI TGT 2-66-----	----> Move when A Set ---->	PA 17 AOL 1500 GRP B1C o/o GRP B3C o/o SCATMINE	Move when C/6-8 FA set PA 27 AOL 2000	14
FSCMs	Div CFL PL BLUE NFAs: Town of Al-Aubin and Al-Varez	Div CFL PL Yellow Bde CFL PL GUTS ----->	Div CFL PL Yellow Bde CFL PL GUTS o/o PL BLOOD ----->	Div CFL PL BLACK Bde CFL PL BLOOD ----->	15
POFs	TF 2-3	TF 2-3	TF 2-3 o/o 2-66 IN	TF 2-3	16

Figure A-1. Example FA Support Matrix

SECTION II – EXAMPLE FIELD ARTILLERY SUPPORT PLAN

A-17. An example of a battalion FASP (an appendix to the fire support annex) is shown below. Figure A-2 is an acronym and abbreviation list used in the FASP.

AAG	Army artillery group (threat)	HVT	high-value target
ACP	air control point	IAW	in accordance with
ADA	air defense artillery	ICE	individual chemical equipment
AIRCOR	air corridor	ID (M)	infantry division (mechanized)
alt	altitude	LOC	lines of communication
app	appendix	maint	maintenance
atch	attached	man	maneuver (attack guidance matrix)
avn	aviation	max	maximum
az	azimuth	mod	modification
C3	command, control and communications	MRL	multiple rocket launcher
CAA	combined arms Army (threat)	msn	mission
cat	category	N/CH	nuclear/chemical
CCCP	chemical casualty collection point	NLTPA	not later than position area
CCP	casualty collection point	PA	position area
cGy	centigray	PL	phase line
coord	coordinate	RAP	rocket-assisted projectile
COP	command observation post	REC	radio-electronic combat
Cphd	Copperhead	RSTA	reconnaissance, surveillance, and target acquisition
CRP	combat reconnaissance patrol	SIMO	simultaneous observation
CSB	common sensor boundary	SITREP	situation report
DF	direction finding	spt	support
DNE	do not engage	survl	surveillance
EA	engagement area	TBP	to be published
ENG	engineer	TD	tank division (threat)
GTD	guards tank division (threat)	TLE	target location error
HA	hide area	TVA	target value analysis
HEMTT	heavy expanded-mobility tactical truck	w	with

Figure A-2. Acronyms and Abbreviations Used in the Example FASP

FASP – BODY (EXAMPLE)

(Classification)

Copy __ of 20 copies
1st Bn, 51st FA
Opposing Force District
061200 Nov 96

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

Reference: Map, series 1501; OPFOR; sheets LJ 11-1, 11-2, 11-3, 11-5, and 11-6; edition 1982, 1:250,000.

Time Zone Used Throughout Order: LOCAL

1. SITUATION.

a. Enemy Forces.

(1) 16th CAA continues to defend. The bulk of the 19th CAA remains in assembly areas vicinity Deep Water Lake. Recon elements of the 19th CAA are reported moving east into the 10th (US) Corps covering force area. 19th CAA is capable of attacking with all supporting artillery and frontal air along three divisional avenues of approach. Expect the 19th CAA to attack through the 16th CAA in 12 to 36 hours. The main attack in the 52d ID (M) sector is expected in the SHALLOW Valley (19th TD and 2d GTD) approach. Initially, the primary threat to FA units is fixed-wing air, with up to 12 FROGFOOT sorties per day in the division sector. Before the main enemy ground effort, units behind the FLOT must be alert for dismounted forces and light armor air-dropped or helicopter-inserted in company or battalion strength. The enemy second-echelon division will push its artillery forward to support the main effort. Expect 12 to 15 122mm and 152mm SP battalions and 2 to 3 122mm MRL battalions to be employed in the division sector as 3 or 4 RAGs and a DAG. In addition, elements of the 19th CAA AAG may be positioned and employed in the division sector.

(2) Intelligence estimate: See Intelligence Annex to OPORD 96-2, 2d Bde, 52d ID (M).

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

b. Friendly Forces.

(1) 2d Bde, 52d ID (M) moves to and occupies defensive positions from LJ234282 to LJ145185 NLT 061200 Nov 96 and defends in sector with two task forces abreast to destroy attacking enemy forces forward of PL VEGAS. TF 1-17 Armor and TF 1-81 Mech will defend in the north and south, respectively. TF 2-81 Mech will be the brigade reserve initially, then will counterattack along Axis LEE if enemy forces reach PL VEGAS.

(2) Brigade commander's intent: The brigade will conduct a mobile defense in sector. Fires and obstacles will be used to canalize the enemy into the southern part of the brigade sector (TF 1-81). TF 1-81 will conduct a fighting withdrawal to prepared positions east of PL VEGAS, while TF 1-17 in the north holds its position in BP 3 and prepares to meet the second-echelon regiment. TF 2-81, the brigade reserve, counterattacks from positions in the north of the brigade sector into the flank of the first-echelon regiment. Artillery fires will be used to slow and confuse the enemy and attack his C2 as he comes into range at PL LANCE by concentrating Copperhead and DPICM fires in TAIs 1 and 2. COLTs will control Copperhead fires and OH-58Ds. Three OH-58Ds will be DS to the brigade. One OH-58D will be operational and in position to observe the TAIs continuously. I am concerned about the capabilities of the enemy's fire support systems ability to limit our maneuver. I want a proactive counterfire effort, using the Firefinder radar and any other available assets to locate the enemy's indirect fire systems. Plan a counterprep based on the best available intelligence to be executed on my order. Once the enemy first echelon exists TAIs 1 and 2, priority of the fire support effort shifts to EA FISH, where I want to stop the enemy and destroy his first-echelon battalions with direct and indirect fire. As TF 1-81 breaks contact and begins to move to its alternate positions, a smoke program will be fired to assist in disengagement and screen their movement. When I order the counterattack, priority of fire will shift to TF 2-81. Artillery fires will be employed ahead of the counterattack to fix the enemy and hinder his ability to shift his force to meet the attack into his flank.

(3) 1-78 FA MLRS (GS) is positioned in the brigade sector. 52d DIVARTY will coordinate with 2d Bde FSE to clear position areas and movement routes.

c. Attachments. Sec 2 (AN/TPQ-36), Btry A (TA), 23d FA remains attached to 1-51 FA for positioning, employment, and support.

2. MISSION. 1-51 FA provides conventional artillery fires in direct support of 2d Bde, 52d ID (M) mobile defense in sector NLT 061200Z Nov 96.

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

3. EXECUTION. FA Commander's Intent: We will provide, interdiction, close fires, and counterfires in support of 2d Brigade's defense in sector. To do this, we will initially position observers and firing units forward to provide Copperhead and DPICM fires on lead elements (first echelon), fire SCATMINE and smoke to delay and disrupt the second echelon, provide SEAD in support of CAS, mass fires on lead elements HPTs, plan a counterprep to be executed on order; and provide counterfire to protect force movements. We will be successful at the end of this operation if the enemy is unable to mass his direct and indirect fires against the brigade and we are in position to support the brigade's counterattack.

a. Concept of Operations. FA fires will engage the enemy deep as he enters the brigade sector. COLT 2 will be located vicinity LJ1723; it will be able to observe both TAIs 1 and 2 and will be able to initiate Copperhead fires in TAI 2. An OH-58D will be operating forward vicinity LJ1526 and will be able to initiate Copperhead and other fires in both TAI 1 and TAI 2 with priority of effort in TAI 1. COLT 2 will use 1-51 FA FD 3 as a quickfire channel to C/2-636, which will provide Copperhead support. The OH-58D will call all missions directly to 1-51 FA FDC on the battalion ops/F net. Artillery will engage the first echelon of the lead division in both TAI 1 and TAI 2 to attrit the enemy and disrupt their C2 with Copperhead and DPICM fires.

A counterprep will be fired on order of the brigade commander. As the lead echelon exits TAI 2, the two planned SCATMINE targets (AB0031, AB0032) will be fired in that TAI to slow and disrupt the second echelon. CAS, supported by SEAD, will then attack the second echelon in TAI 2 under control of the OH-58D (brigade backup control). Artillery fires continue to attrit the first echelon. The main enemy attack is expected to be in TF 1-81 sector. Once Group A30B has been executed on the first echelon, the SCATMINE (AB0017) in TF 1-81 sector will be emplaced. Artillery fires will then concentrate on the first echelon as it attempts to breach the TF obstacles. When the first echelon enters EA CAT, artillery fires will concentrate on the second echelon and provide smoke or illumination to silhouette the first echelon for the maneuver forces. Three batteries will be capable of firing throughout the battle, and three batteries must be capable of ranging beyond PL LANCE to support the deep battle initially. Priority targets will initially be the targets in Group A2B, then will shift to Group A30B, and then to Target AB0015 and Group A31B. Priority of fires will then shift to the FPFs of both task forces. Priority for Copperhead fires will be C2 vehicles throughout the battle and then to engineer vehicles during breaching operations. Artillery must be prepared to support the counterattack by TF 2-81 along Axis LEE to hit the flank of the lead echelon with both DPICM and Copperhead fires as well as smoke. Be prepared to move batteries forward by echelon on order of the FSCOORD.

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

b. Organization for Combat.

1-51 FA (155, SP): DS 2d Bde
Sec 2 (AN/TPQ-36, Btry A (TA), 23 FA: Attached 1- 51 FA
Sec 1, 2, 3 (OH-58D), DIVARTY Spt Plt, Cmd Avn Co, 52d Cbt Avn Bde: DS
1-51 FA
2-636 FA (155, SP): R 1-51 FA

c. Priority of Fires. Priority of fires to TF 1-81, on order to TF 2-81 when committed.

d. Positioning and Movement. Initial firing battery positions are shown below. Subsequent movement and positions will be IAW Tab A. See the movement overlay for PA locations.

- (1) A/1-51 FA: PA 1 (az 5000)
- (2) B/1-51 FA: PA 15 (az 5000)
- (3) C/1-51 FA: PA 9 (az 4900)
- (4) A/2-636 FA: PA 5 (az 5100)
- (5) B/2-636 FA: PA 5 (az 5100)
- (6) C/2-636 FA: PA 2 (az 4900)

e. Coordinating Instructions.

- (1) Target Acquisition.
 - (a) Counterfire Reference Grid. Lower left corner is AA at grid LJ000900.
 - (b) See Tab C.
- (2) Survey.

(Classification)

 (Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

(a) Priority of survey is, in order, to firing batteries (A, C, B, 1-51 FA; A, B, C, 2-636 FA), AN/TPQ-36 radar, COLTs, OH-58D control points, and mortars.

(b) Survey sections will establish starting control at the following survey control points:

<u>SCP NAME</u>	<u>EASTING</u>	<u>NORTHING</u>	<u>ALTITUDE</u>
MARY	525422.97	3919175.39	935.2
HELEN	531642.91	3922964.29	1054.5

(c) Control points will be marked per TSOP. OH-58D control points will be established on prominent terrain and marked with a target cloth panel 6 feet by 6 feet with a 4-foot-diameter circle spray-painted in black and an identifying number painted in numerals 2 1/2 feet tall in the center of the circle.

(d) See Tab D (Survey).

(3) High-Payoff Target List.

<u>PRIORITY</u>	<u>CATEGORY</u>	<u>DESCRIPTION OF TARGETS</u>
1	6 (RSTA)	Recon patrol, division recon company
2	3 (MAN)	Armor heavy (company size or larger)
3	7 (REC)	Radar intercept and DF site (POLE DISH)
4	7 (REC)	Radio intercept and DF site
5	2 (FS)	RAG COP
6	2 (FS)	Battalion COP
7	2 (FS)	Sound ranging site

 (Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

(4) Attack Guidance Matrix.

	CAT	HPTs	WHEN	HOW/EFFECTS	REMARKS
(C3)	1		A	N/EW	Coord w EW
(FS)	2		A	N	DNE MRL > 10 min
(MAN)	3		A	N	
(ADA)	4		P	S/ALO	
(ENG)	5		P	N	
(RSTA)	6		I	N	
(REC)	7		A	D/EW	
(N/CH)	8		A	D	TLE < 200 m/TDA
(POL)	9		A	N	
(AMMO)	10		A	N	
(MAINT)	11		P	N	Not HVT/HPT
(LIFT)	12		P	N	Not HVT/HPT
(LOC)	13		P	N	Not NVT/HPT

Legend:

CAT = Target category from TVA.
HPT = Designated high-payoff target. Target numbers from TVA sheets or target description.
WHEN = When the target should be attacked.
I: Immediately, Interrupt other non-immediate attacks.
A: As acquired. Attack as assets are available.
P: Plan. Schedule to file for later attack.
HOW = How target is to be attacked.
S: Suppress
N: Neutralize. (10% effects)
D: Destroy (30% effects)
EW: Offensive EW.
DNE: Do not engage.
ALO: Coordinate attack with ALO.
TLE: Target locations error.

(5) NBC Defense.

(a) MOPP when 2S1s (122mm, SP) reported at PL LANCE.

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

(b) Troop safety criteria: Negligible risk to warned, exposed personnel.

(c) Operational exposure guidance: Do not exceed 50 cGy. Begin continuous monitoring after first use of nuclear weapons.

(d) Decontamination. Service battery decontamination team will prepare unsupported decon site at grid LJ445094. Two battery sets of ICE packs will be prepositioned at this point to facilitate MOPP gear exchange. Firing battery decon teams will report to this site on order. Contaminated vehicles will travel Route GREEN (LJ294164 to LJ327144 to LJ373125 to LJ408114 to LJ429094 to LJ445094). Contaminated casualties will be evacuated to collection point at grid LJ438091.

(6) Meteorology. Computer met sent by 52d Inf DIVARTY every 2 hours on battalion cmd net (voice) and ops/F net (digital).

(7) Fire Plan. Target List, schedules of fires and FSCMs are in plan current.

(8) CCIR, PIR, EEFI, FFIR, and other intelligence or information as appropriate.

(a) When will the enemy attack?

- What avenues will be used?
- What is the 19th TD's state of readiness?
- What are the 19th TD's objectives?

(b) Will the 2d GTD reinforce the 19th TD? If so, will reinforcements be committed to the Shallow Valley approach? When will reinforcements be committed?

(c) Will the enemy lead his attack with forward detachments?

(d) What are the strength, disposition, and composition of the enemy's supporting artillery? Where are the DAG and RAGs? Where are the enemy's MRLs?

(e) When will enemy artillery reach PL LANCE?

(f) Where are enemy OPs located?

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

(g) What TA assets are available to the enemy, and where are they located?

(9) Information Requirements.

(a) Will the enemy use NBC weapons? If so, where and to what extent? Where is persistent agent placed?

(b) What are possible LZs and drop zones? Will the enemy conduct airmobile operations?

(10) Intelligence Acquisition Tasks. Batteries will report as obtained.

(a) All chemical activity and locations of enemy chemical-capable units, especially smoke operations vicinity LJ2324, LJ1820, and LJ1915.

(b) All indirect fires. Include shelling reports and friendly battle damage assessment.

(c) Lanes cleared through enemy controlled or emplaced obstacles.

(d) Enemy patrols. Number, size, composition, and time observed.

(e) All direct fire engagements, including enemy battle damage assessment when available.

(f) Enemy rotary-wing activity.

(11) Ammo Restrictions. Batteries will expend no more than 70% of DPICM and 50% of HC and/or WP CSR supporting the defense. Short-duration SCATMINE must be approved by the brigade commander. Illumination and HC smoke will be approved by the TF commanders.

(12) Plan rehearsal will be conducted at the 1-51 FA CP at 061000 Nov 96. 1-51 FA XO, S3, S2, FDO, CESO, survey chief, firing battery commanders, HHB and svc battery commanders, OH-58D representative, 2-636 S3 and LO, and 2d Bde FSO and ALO will participate in person. TF FSOs, COLTs, and battery FDOs will participate via wire or FM radio.

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

4. SERVICE SUPPORT.

a. Personnel. The battalion is currently at 82% strength. 83d Medical Group reports that nine soldiers will be returned to 1-51 FA within the next 36 hours.

b. Medical. 1-51 FA BAS is located in the combat trains (LJ363158). 1-51 will establish a CCCP for 1-51 FA and 2-636 FA. Casualty collection points are as follows:

1-51 FA CCP	LJ304162
1-51 FA CCCP	LJ438090
2-636 FA CCP	LJ321155

c. Locations.

1-51 FA:	
Combat trains	LJ363158
Field trains	LJ473097
LRP	LJ306159

2-636 FA: TBP

d. CSR Information. CSR effective upon implementation of OPORD 96-2.

	<u>HE</u>	<u>APICM</u>	<u>DPICM</u>	<u>WP</u>	<u>HC</u>	<u>ILLUM</u>	<u>RAP</u>	<u>CPHD</u>	<u>ADAM</u>	<u>RAAMS</u>
155mm	37	3	90	6	6	3	5	5	2	7

e. Resupply Criteria. Batteries will request resupply when CSR drops to these levels.

HE	50%	RAAMS	10%
DPICM	25%	ADAM	10%
APICM	50%	M3A1	50%
RAP	25%	M4A1	30%
Illum	50%	M119A1	20%
WP	25%	Viper	50%
Smk (HC)	25%	.50 cal	30%
5.56mm	50%	7.62mm	50%

f. ASP Information. ASP is located at grid LJ562235. ATP will remain operational at grid LJ398128 until 062000 Nov 96, at which time it will begin to displace.

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

g. Recovery. One M578 each will be attached to Batteries A and C NLT 061000 Nov 96. One HEMTT wrecker will be available on call in the combat trains.

5. COMMAND AND CONTROL.

a. Command.

- (1) 2d Bde TOC located grid LJ336147.
- (2) DIVARTY TOC located grid LJ588012.
- (3) 1-51 FA TOC located grid LJ366163.
- (4) 2-636 FA TOC located grid LJ412174.
- (5) 2-636 FA TOC will assume DS TOC responsibilities on order.

b. Signal.

- (1) SOI KTV 1062, Edition BB in effect.
- (2) Retrans located at grid LJ363177. Priority of retrans will be to BDE fire support net.
- (3) Wire. Priority of work, in order, to the following external circuits.

1-51 FA:

- (a) 1-51 FA TOC to 2d Bde TOC (MSE junction box only)
- (b) 1-51 FA TOC to Btry B, 1-51 FA.
- (c) 1-51 FA TOC to Btry A, 1-51 FA.
- (d) 1-51 FA TOC to Btry C, 1-51 FA.

2-636 FA:

- (a) 2-636 FA TOC to 1-51 FA TOC.

(Classification)

(Classification)

APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde,
52d Inf Div (Mech).

(b) Per unit TSOP.

Wire teams will start to recover wire when the enemy's regimental CRP reaches PL LANCE.

Acknowledge:

EDWARDS
LTC

OFFICIAL:

/Signed/
COOPER
S3

Tabs: A - FA Support Matrix
 B - Positioning Overlay
 C - Target Acquisition
 D - Survey Plan

(Classification)

EXAMPLE FIELD ARTILLERY SUPPORT MATRIX (TAB)

(Classification)

TAB A (FA SUPPORT MATRIX) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

Reference: Map, Series 1501; OPFOR, sheets LJ 11-1, 11-2,11-3,11-5, and 11-6; edition 1982, 1:250,000.

Time Zone Used Throughout Order: LOCAL

UNIT	FORWARD OF PL LANCE	PL LANCE-PL VEGAS	COUNTERATTACK	
1-51 CP	LJ366163			14
A/1-51	OCCUPY PA 7 AOF 5200 TF 1-81 FA POF	RECON PA 1 AB3002 (A30B) AB 3005 (A31B) PRI TGT AB0015 CPHD MSN TF 1-81 FA POF	OCCUPY PA 1 AOF 5000 o/o TF 2-81 FA POF	13
B/1-51	OCCUPY PA 4 AOF 5000 TF 1-81 FA POFO	RECON PA 10 AS3003 (A30B) AB3006 (A31B) AB0017 (SCATMINE) FPF C/1-81 TF 1-81 FA POF	OCCUPY PA 10 AOF 5200 o/o TF 2-81 FA POF	12
C/1-51	OCCUPY PA 6 AOF 5000 TF 1-81 FA POF	RECON PA 14 AB3001 (A30B) AB0018 (SCATMINE) FPF 1/1-17 TF 1-81 FA POF	OCCUPY PA 14 AOF 5300 o/o TF 2-81 FA POF	11
2-636 CP	LJ412174 MSU o/o			10
A/2-636	RECON PA 19 AB0007 (A2B) AB0004 (A1B) AB0031 (SCATMINE) TF 1-81 FA POF	OCCUPY PA 19 AOF 4600 TF 1-81 FA POF	RECON PA 5 o/o TF 2-81 FA POF	9
B/2-636	RECON PA 17 AB0008 (A2B) AB0003 (A1B) AB0032 (SCATMINE) TF 1-81 FA POF	OCCUPY PA 17 AOF 5000 TF 1-81 FA FPF	RECON PA 15 o/o TF 2-81 FA POF	8
C/2-636	RECON PA 18 AB0009 (A2B) AB0005 (A1B) CPHD MSN TF 1-81 FA POF	OCCUPY PA 18 AOF 5000 TF 1-81 FA FPF	RECON PA 9 o/o TF 2-81 FA POF	7
Q-36	RECON PA 20		OCCUPY PA 21 AZ4400	6
PADS #1 (1-51)	PAs 6, 20, 4, 17, 18	PA 12	PA 9	5
PADS #2 (1-51)	PAs 1, 5, 7, 19		PAs 5, 15	4
PADS #1 (2-636)	RADAR, COLTs		PAs 14, 21	3
PADS #2 (2-636)	PAs 2, 3, 15		PAs 1, 10	2
FSCMs	CFL PL MACE ACA JOE (o/o)	CFL o/o PL LANCE ACA BOB (o/o)	CFL o/o PL MACE	1
A	B	C	D	

ACA = airspace coordination area, AOF = azimuth of fire, RECON = reconnaissance

(Classification)

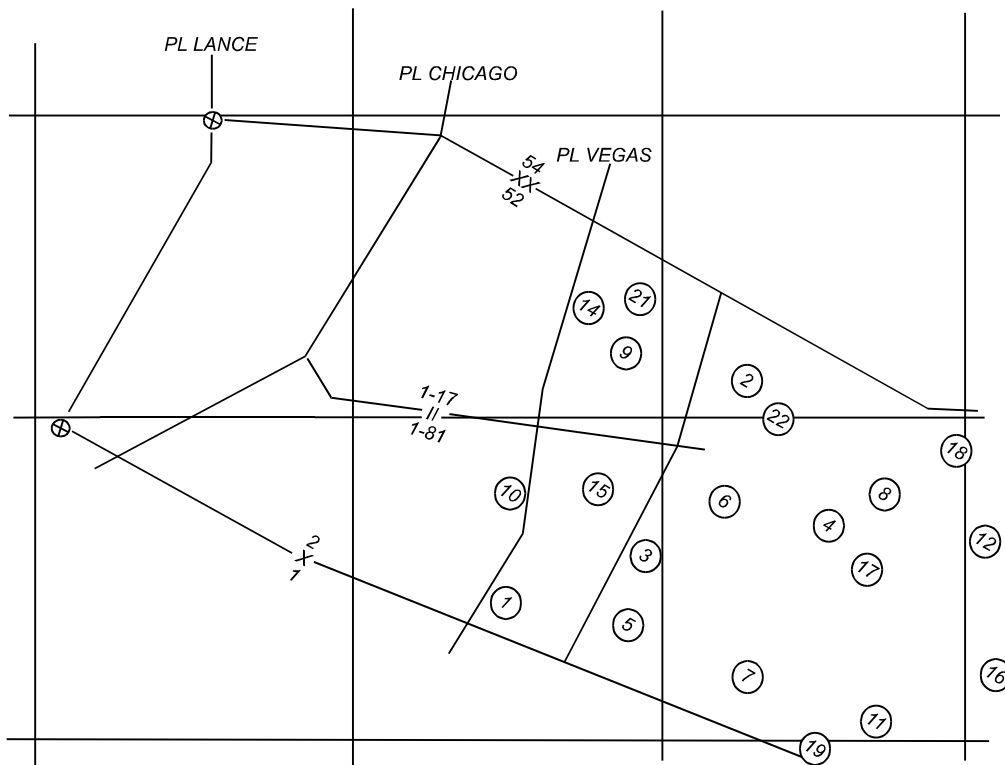
EXAMPLE POSITIONING OVERLAY (TAB)

(Classification)

TAB B (POSITIONING OVERLAY) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div.

Reference: Map, Series, 1501; OPFOR, sheets IJ 11-1, 11-2, 11-3, 11-5, and 11-6; edition 1982, 1:250,000.

Time Zone Used Throughout Order: LOCAL



(Classification)

EXAMPLE TARGET ACQUISITION TAB

(Classification)

TAB C (TGT ACQUISITION) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div.

Reference: Map, series 1501; OPFOR; sheets LJ 11-1, 11-2, 11-3, 11-5, and 11-6; edition 1982; 1:250,000.

Time Zone Used Throughout Order: LOCAL

1. SITUATION.

a. Enemy Forces. See App 3, paragraph 1a, and Intel Annex to OPORD 96-2--2d Bde, 52d Inf Div (Mech).

b. Friendly Forces. 1-51 FA (155, SP) is DS to 2d Bde. 2-636 FA (155, SP) is R 1-51 FA. Sec 2 (AN/TPQ-36), Btry A (TA), 23d FA is attached to 1-51 FA. Sec 4 (AN/TPQ-37), Btry A (TA), 23d FA is operating in 2d Bde sector. 2d Bde has three COLTs. Three OH-58Ds are DS 2d Bde.

2. MISSION.

Tgt acquisition assets (Sec 2 [AN-TPQ-36], Btry A [TA], 23d FA; Sec 1, 2, and 3 [OH-58D], DIVARTY Spt Plt, Cmd Avn Co, 52d Cbt Avn Bde; COLTs 1, 2, and 3) acquire targets, initiate fire missions, and report combat and/or targeting information commencing NLT 061200 Nov 96 in support of 2d Bde defense in sector.

3. EXECUTION.

a. Concept of Operations. The AN/TPQ-36 will provide coverage of the 2d sector at the FLOT out to PL SPEAR. The AN/TPQ-36 will also ensure coverage of CFFZs 1 and 2 and CFZs 1, 2, and 3 (see RDO, enclosure 1). Cueing agents will be the Bde FSO, TF 1-17 FSO, TF 1-81 FSO, and 1-51 FA S2.

b. Processing. All enemy artillery locations will be sent to the 1-51 FA TOC and the DIVARTY TOC. OH-58Ds report targets and targeting information to 1-51 FA TOC and 2d Bde FSE.

(Classification)

(Classification)

TAB C (TGT ACQUISITION) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div.

c. Visual Observation.

(1) Ground Observation. COLTs will report location and zone of observation through the Bde FSO to 1-51 FA TOC.

(2) Air Observation.

(a) Sec 1, 2, and 3 (OH-58D) maintain continuous observation (at least one section on station at all times) of EA FISH. Report PIR and IR in TAIs 1 and 2.

(b) Initiate Copperhead fires to C/2-636 FA on 1-51 FA FD 3 net when HPTs enter EA FISH.

(c) Report lead elements of second-echelon regiments in TAI 2 (trigger point for CAS mission).

(d) Initial position will be vicinity AIRCOR TANGO ACP 4 (LJ1626) NLT 060001 Nov 96.

(e) Coordinate with 1-51 FA RSO for location and marking of survey update points. Contact RSO on DIVARTY survey (VHF-FM) (V) net.

d. Radar. Sec 2 (AN/TPQ-36), Btry A (TA), 23d FA mission: Attached 1-51 FA (see RDO, enclosure 1).

e. Coordinating Instructions.

(1) Zones.

(a) Critical Friendly Zones. Bde TOC, TF 1-81 (BP 6), TF 1-17 (BP 3). (See RDO, enclosure 1.)

(b) Call-for-Fire-Zones. See RDO, enclosure 1.

(c) Artillery Target Intelligence Zones. See RDO, enclosure 1.

(2) Common Sensor Boundary. Grid LJ1137 to LJ1938 to LJ2736 to LJ3735.

(Classification)

(Classification)

TAB C (TGT ACQUISITION) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div.

(3) Cueing Instructions. AN/TPQ-36 radiates on order of 1-51 FA S2 and designated cueing agents. Other friendly elements request radar coverage through the 1-51 FA TOC on the FA battalion command net. Radar section chief reports to 1-51 FA S2 30 minutes prior to making survivability moves due to excessive radiation time from current location. Cueing agents will request cueing only if their elements are receiving continuous or massive incoming artillery. (See RDO, enclosure 1).

(4) Survivability Moves. Radar will report to 1-51 FA S2 before initiating routine survivability moves.

(5) Survey. 1-51 FA will provide survey for Sec 2 (AN/TPQ-36), Btry A (TA), 23d FA. Radar section chief will coordinate with 1-51 FA RSO for survey as required.

(6) Visibility Diagrams. All observers will submit visibility diagrams through FSO channels to the DS FA battalion S2 NLT 061100 Nov 96.

4. SERVICE SUPPORT.

AN/TPQ-36 will coordinate Class I and III support from Btry C, 1-51 FA. All other logistic support will be provided through 1-51 FA combat trains.

5. COMMAND AND SIGNAL.

a. **Command.** Btry A (TA), 23d FA TOC located LJ588012.

b. **Signal.** SOI KTV 1062, Edition BB in effect.

Enclosure 1. Radar Deployment Order

Enclosure 2. Capabilities Overlay.

(Classification)

EXAMPLE RADAR DEPLOYMENT ORDER (ENCLOSURE TO TAB)

(Classification)

ENCLOSURE 1 (RADAR DEPLOYMENT ORDER) TO TAB C (TGT ACQUISITION) TO
APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde,
52d Inf Div (Mech).

CLASSIFICATION WHEN FILLED IN							
RADAR DEPLOYMENT ORDER							
For use of this form, see FM 6-121. The proponent agency is TRADOC.							
SECTION 2	-36	-37	MISSION ATCH 1-51 FA				
LOCATION	Primary PA 21		Alternate PA 7				
SEARCH SECTOR							
	Left Edge	Right Edge	Minimum Range		Maximum Range		
Primary Azimuth 4700	-800 mils	+700 mils	.75 km meters		24 km meters		
Alternate Azimuth	mils	mils	meters		meters		
EW THREAT ASSESSMENT							
EW Threat (Yes or No)	Affecting Friendly Assets (Yes or No)		Type of Threat (Air or Ground)				
NOTE: Use the Firefinder survivability flowchart in FM 6-121 to determine emission limits. e							
CUEING AGENTS (CALL SIGN AND DESIGNATION) IN PRIORITY							
2 BDE FSO		1-17 FSO			1-81 FSO		
1-51 FA S2							
REPORTING CHANNELS							
FA BN CMD (V)				FA BN OPS/F (D)			
ZONE DATA							
Type and Number	Description and/or Command Priority	Grid Coordinates of Zone Corner Points					
CFZ 1	TF 1-17	273090	273122	291122	291090		
CFZ 2	TF 1-81	167111	167136	181136	181111		
CFZ 3	TF 2-81	171072	171089	193089	193072		
CFZ 4	BDE TOC	235041	235063	262063	262041		
CFFZ 1	DAG PRI 1	270280	270300	300300	300280		
CFFZ 2	RAG PRI 2	175345	175365	210365	210345		
CFFZ 3	HVY MTR - BTRY PRI 3	210240	210260	240260	240240		
ATIZ 1	RAG	221343	221359	239359	247355	247343	
ATIZ 2	AAG	265430	265460	310460	310430		

DA FORM 5957-R SEP 1990

DAG = division artillery group, PRI = priority

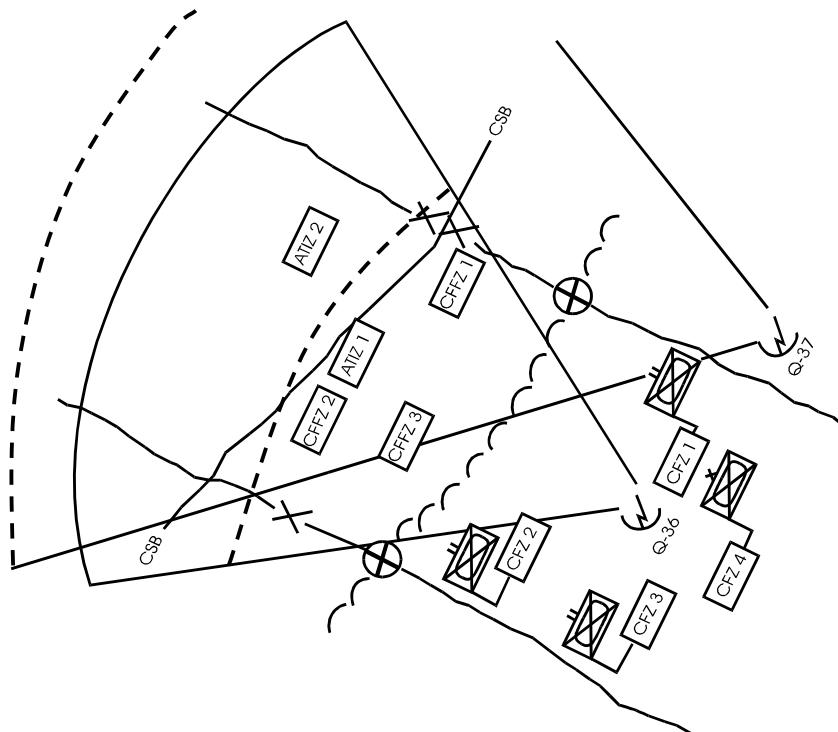
CLASSIFICATION WHEN FILLED IN

(Classification)

EXAMPLE CAPABILITIES OVERLAY (ENCLOSURE TO TAB)

(Classification)

ENCLOSURE 2 (CAPABILITIES OVERLAY) TO TAB C (TGT ACQUISITION) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).



(Classification)

EXAMPLE SURVEY PLAN (TAB)

(Classification)

TAB D (SURVEY PLAN) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

Reference: Map, series 1501; OPFOR; sheets LJ 11-1, 11-2, 11-3, 11-5, and 11-6; edition 1982; 1:250,000.

Time Used Throughout Order: LOCAL

1. SITUATION.

a. Enemy Forces. See App 3, paragraph 1a and Intel Annex to OPORD 96-2--2d Bde, 52d Inf Div (Mech).

b. Friendly Forces. 1-51 FA (155, SP) is DS to 2d Bde. 2-636 FA (155, SP) is R 1-51 FA. Sec 2 (AN/TPQ-36), Btry A (TA), 23d FA is attached to 1-51 FA. 2d Bde has three COLTs. Three OH-58Ds are DS to 1-51 FA.

2. MISSION.

The survey sections of 1-51 FA and 2-636 FA provide conventional and PADS survey support to 1-51 FA, 2-636 FA, AN/TPQ-36 radar, COLTs, OH-58Ds, and mortars supporting the 2d Bde in sector.

3. EXECUTION.

a. Concept of Operations. Survey support will be a team effort by survey sections from both 1-51 FA and 2-636 FA. PADS teams will accompany firing battery recons to provide survey data for all battery primary and alternate positions. PADS teams will provide survey data for the attached AN/TPQ-36. The AN/TPQ-37 will receive PADS support upon coordinating for that support with 1-51 FA TOC when needed. Survey will be available for COLTs, OH-58Ds, and mortars.

(1) PADS #1, 1-51 FA will provide survey to Btry C, 1-51 FA and ensure their primary and alternate positions in PA 9 have survey NLT 070001 Nov 96. PADS #1 will then accompany Btry C, 1-51 FA recon to prepare PA 6. Upon completion of PA 6, PADS #1 will survey the AN/TPQ-36 primary and alternate positions in PA 20. Then, they will provide survey to Btry B, 1-51 in PA 4. Be prepared to provide survey to Btry B, 2-636 FA and Btry C, 2-636 FA in PAs 17 and 18, respectively, and to survey PA 12 for Btry C, 1-51 FA.

(Classification)

(Classification)

TAB D (SURVEY PLAN) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

(2) PADS #1, 2-636 FA will provide survey for primary and alternate positions in PA 2 NLT 070001 Nov 96 for Btry C, 2-636 FA. PADS #1, 2-636 will then move forward to link up with the FSE, TF 1-17 to survey COLTs and mortars in the northern position of the brigade sector. Be prepared to provide survey in PA 21 for the AN/TPQ-36 and in PA 14 for Btry C, 1-51 FA. Be prepared to assist PADS #1, 1-51 FA in completing its survey requirements.

(3) PADS #2, 1-51 FA will provide survey in PA 1 for Btry A, 1-51 FA and in PA 5 for Btry A, 2-636 FA for both primary and alternate positions in both PAs NLT 070001 Nov 96. Then PADS #2 will survey PA 7 for Btry A, 1-51 FA and PA 19 for Btry A, 2-636 FA. Be prepared to provide survey in PAs 11 and 16 Batteries A and B, 1-51 FA, respectively.

(4) PADS #2, 2-636 FA will provide survey in PA 3 for Btry B, 2-636 FA and in PA 15 for Btry B, 1-51 FA for both primary and alternate positions in both PAs NLT 070001 Nov 96. PADS #2, 2-636 FA will then move forward to link up with the FSE, TF 1-81 to survey COLT positions and mortars in the southern portion of the brigade sector. Be prepared to assist PADS #2, 1-51 FA in completing its requirements. Be prepared to provide survey in PA 10 for Btry B, 1-51 FA.

(5) Conventional survey team, 1-51 FA will provide PADS updates points in the TF 1-17 sector and the northern portion of the brigade sector. It will also provide OH-58D initialization points vicinity grids LJ3817 and LJ3121. Initialization points will be marked with a 6- X 6-foot target cloth panel with a 4-foot diameter circle spray-painted in black. An identifying number with numerals 2 1/2 feet tall will be painted in the center of the circle. The team will also assist PADS #1, 1-51 FA and PADS #1, 2-636 FA in accomplishing their assigned survey tasks if necessary.

(6) Conventional survey team, 2-636 FA will provide PADS update points in the TF 1-81 sector and the southern portion of the brigade sector. It will assist PADS #2, 1-51 FA and PADS #2, 2-636 FA in accomplishing their assigned survey tasks if necessary.

(7) Survey Sec HQ, 2-636 FA will establish a SIMO station vicinity LJ366163 (1-51 FA CP). Station will be established NLT 061600 Nov 96 and will remain operational as long as weather conditions permit SIMO operations. Contact SIMO station with 2-636 RSO call sign in 2-636 FA survey net.

(Classification)

(Classification)

TAB D (SURVEY PLAN) TO APPENDIX 3 (FA SUPPORT PLAN) TO ANNEX E (FIRE SUPPORT) TO OPORD 96-2--2d Bde, 52d Inf Div (Mech).

b. Coordinating Instructions.

(1) Priority of survey is, in order, to firing battery positions (A, C, B, 1-51 FA; C, A, and B, 2-636 FA), radars, COLTs, OH-58D control points, and mortars.

(2) Survey sections will establish starting control at the following survey control points.

<u>SCP NAME</u>	<u>EASTING</u>	<u>NORTHING</u>	<u>ALTITUDE</u>
MARY	525422.97	3919175.39	935.2
HELEN	531642.91	3922964.29	1054.5

(3) All surveys will be closed. Parties will report completion of surveys to 1-51 FA TOC over ops/F (D).

4. SERVICE SUPPORT.

Service support for 1-51 FA survey section will be provided at 1-51 FA combat trains. Service support for 2-636 FA survey section will be provided at 2-636 FA combat trains. Inoperable PADS equipment will be brought immediately to the field trains.

5. COMMAND AND SIGNAL.

a. Command. 1-51 FA RSO will direct all survey operations. He will operate from the 1-51 FA CP.

b. Signal. SOI KTV 1062, Edition BB in effect.

(Classification)